



Attorney Docket No.: 051252-5028
Application S.N. 09/474,766

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)
William James IMOEHLL)
Application No.: 09/474,766) Group Art Unit: 3752
Filed: December 30, 1999) Examiner: C. Kim
For: FUEL INJECTOR WITH THERMALLY)
ISOLATED SEAT)

(16)

REQUEST FOR RECONSIDERATION UNDER 37 C.F.R. § 1.116

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OFFICE OF PETITIONS OFFICE OF PETITIONS

Commissioner for Patents
Washington, D.C. 20231

Sir:

The final Office Action dated 20 November 2000 (Paper no. 7) has been reviewed and the comments of the U.S. Patent and Trademark Office have been considered. Applicant respectfully submits the following remarks. Claims 1 - 17 are currently pending in the application.

Claims 5, 6, and 10 were rejected under 35 U.S.C. § 112, first paragraph. Specifically, the Office Action asserts that the specification does not disclose a first surface of a swirl generator disk being adjacent an armature nor a first surface of a guide disk adjacent an armature, as recited in claim 5, and does not disclose a first surface of a swirl generator disk adjacent an inlet portion of a body nor a first surface of a guide disk adjacent an inlet portion of a body as recited in claim 10. As the Office Action indicates, the definition of "adjacent" includes "close to." Applicant respectfully assert that Figures 1 and 2 show examples of a first surface of a guide disk 78 and a first surface of a swirl generator 80 adjacent or close to an armature, as well as a first surface of the swirl generator disk and a first surface of the guide disk adjacent or close to an inlet portion of a body.

In response to the Advisory Action, mailed on May 03, 2001, Applicant further respectfully notes that the claims are not expressly limited to the embodiment shown in Figures 1 and 2. That is, since the drawings are without any scaling factor and are examples of one embodiment, one skilled

in the art would be enabled by the originally filed specification, including Figures 1 and 2, to provide for a swirl generator disk or a guide disk disposed adjacent the inlet portion of the body. Thus, it is respectfully submitted that the claims fully comply with 35 U.S.C. § 112, and that the rejection to these claims be withdrawn.

Claims 1 - 3, 8, 9, and 11 - 15 were rejected under 35 U.S.C. § 103(a) as being unpatentable over U.S. Patent No. 6,145,761 to *Muller et al. (Muller)* in view of U.S. Patent No. 5,170,945 to *Daly et al. (Daly)* and in view of U.S. Patent No. 4,434,766 to *Matsuoka et al. (Matsuoka)*. Claims 4 and 16 were rejected under 35 U.S.C. § 103(a) as being unpatentable over *Muller* in view of *Daly* and *Matsuoka*, and further in view of U.S. Patent No. 5,330,100 to *Malinowski*. Claims 7 and 17 were rejected under 35 U.S.C. § 103(a) as being unpatentable over *Muller* in view of *Daly* and *Matsuoka*, and further in view of U.S. Patent No. 6,068,495 to *Virchow*. Applicant respectfully traverses these rejections.

Each of independent claims 1, 8, and 12 includes combinations of features that are not taught or suggested by *Muller*, *Daly*, *Matsuoka*, *Malinowski*, or *Virchow*, either when taken alone or in combination. Specifically, claim 1 recites a combination of features including "a seat proximate the needle and having a first face, a second face, and a circumferential surface disposed between the first face and the second face, the circumferential surface including a first zone and a second zone that are connected by an intermediate zone extending substantially perpendicular to the first and second zones, the intermediate zone contiguously engaging the body; and a seal disposed between the second zone of the seat and the body so that the seal thermally isolates the second zone of the seat from the body." Claim 8 recites a combination of features including "a seat having a first face, a second face, and an circumferential surface disposed between the first face and the second face, the circumferential surface including a first zone and a second zone that are connected by an intermediate zone extending substantially perpendicular to the first and second zones, the intermediate zone contiguously engaging the body, and the second zone being thermally isolated from the body." And claim 12 recites a combination of features including "a seat having a first face, a second face, and a circumferential surface disposed between the first face and the second face, the circumferential surface including a first zone and a second zone that are connected by an intermediate zone extending substantially perpendicular to the first and second zones [, . . . and] thermally isolating the second zone of the seat from the body."

It is respectfully submitted that *Muller, Daly, Matsuoka, Malinowski, and Virchow* do not teach or suggest the combinations of features recited in Applicant's independent claims 1, 8, and 12. The Office Action asserts that the references teach various features of Applicant's invention. However, it is respectfully submitted that these references, whether considered alone or in combination, fail to suggest Applicant's invention as a whole. Specifically, none of the references show a seat having a circumferential surface including first and second zones connected by an intermediate zone extending perpendicular to the first and second zones, with the second zone thermally isolated from the body. For at least these reasons, Applicant respectfully requests that the rejection of the independent claims be withdrawn and the claims allowed.

Claims 2 - 7, 9 - 11, and 13 - 17 depend from independent claims 1, 8, or 12, and are therefore also allowable for at least the same reasons. Thus, Applicant respectfully requests that the rejections of these claims be withdrawn and the claims allowed.

In view of the foregoing remarks, Applicant respectfully requests reconsideration and allowance of the claimed invention. The Examiner is invited to contact Applicant's representative if any issues remain unresolved.

EXCEPT for issue fees payable under 37 C.F.R. § 1.18, the Commissioner is hereby authorized by this paper to charge any additional fees during the entire pendency of this application including fees due under 37 C.F.R. §§ 1.16 and 1.17 which may be required, including any required extension of time fees, or credit any overpayment to Deposit Account 50-0310. This paragraph is intended to be a **CONSTRUCTIVE PETITION FOR EXTENSION OF TIME** in accordance with 37 C.F.R. § 1.136(a)(3).

Respectfully submitted,
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Dated: 22 March 2002

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